GCCS System Integration Support

PDR Maintenance Manual Update

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PRE-DEFINED REPORTS MAINTENANCE MANUAL
UPDATE

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APPENDICES

1.0 SCOPE

This document describes the Joint Operation Planning and Execution System (JOPES) Pre-Defined Reports (PDR) Version 1.5.1.01, May 1996. This version includes reports available in the JOPES legacy systems that have been migrated to the Global Command and Control System (GCCS).

1.1 Identification

The PDR application was developed for execution in a client-server environment on Sun UNIX platforms using Solaris 2.3 and Hewlett-Packard HP700 platforms using HP-UX. The PDR application consists of a user interface, developed in Gain Momentum Version 3.1; a report generation capability, developed using ORACLE Reports 2.0; and various UNIX shell and ORACLE Structured Query Language (SQL) scripts. The Relational Database Management System (RDBMS) is ORACLE Version 7.1.

The following are the Commercial-off-the-Shelf (COTS) products and version numbers used by the PDR application:

a. ORACLE 7 - 7.1.4.1.0,
b. ORACLE Reports 2.0.14.6.2,
c. SQL*Plus - 3.1.3.5.1,
d. PL/SQL - 2.1.4.0.0,
e. SQL*Net - 20.0.15.0.0, and
f. Gain Momentum - 3.1-41.

The following freeware products are also used by the PDR application:

a. tcl 7.4 or tcl 7.5,
b. tk 4.0 or tk 4.1, and
c. wish 4.1.

1.2 Application Overview

This Maintenance Manual discusses the operation of the PDR application within GCCS. The PDR application is an automated tool for use by the Joint Staff (JS) and the Commanders-in-Chief (CINC) of the unified and specified commands. The PDR application is part of the redesign and migration of selected Joint Deployment System (JDS) and Joint Operation Planning System (JOPS) subsystems from the Worldwide Military Command and Control System (WWMCCS) Data Processing System (DPS) 8/8000 mainframe to the client/server architecture provided under GCCS.

The PDR application enables crisis and deliberate planners to select, preview, and generate fixed format reports of Operation Plan (OPLAN) movement requirements, Standard Specified Geographic Location File

(GEOFILE) data, Type Unit Characteristics File (TUCHA) reference data, and the Reference File Status Report from the JOPES Core database. OPLAN-based reports cover the following areas:

a. Transportation Summary,
b. Requirements Detail,
c. Movement Requirements,
d. Force Module (FM) Information, and
e. OPLAN Information Analysis Results.

The standard reference file paging/reports capability covers the following areas:

a. Geographic (GEO) Location

    1) Geographical Location Detail, and
    2) Country Names.

b. TUCHA

    1) Type Unit Identification (ID),
    2) Type Unit Movement Characteristics,
    3) Type Unit Cargo at Level 3 Cargo, and
    4) Type Unit Cargo at Level 4 Cargo.

The Reference File Status Report covers the following areas:

a. Reference File Header Summary Report,
b. Aerial Ports and Air Operating Bases Header,
c. Transportation Assets Header,
d. Characteristics of Transportation Resources Header,
e. Specified Geographic Locations Header,
f. Logistics Factors Header,
g. Seaports Reference File Header,
h. Type Unit Characteristics Header, and
I. Type Unit Equipment Header.

The PDR application offers the user the ability to first select a standard predefined report type and then specify data qualifications for the generation of the report. The GEO and TUCHA applications also retrieve the selected records for display. The PDR application provides the user the ability to add new qualifications, drop old qualifications, and continue the data previewing process as necessary. The printed reports are based on report formats of the legacy JDS/JOPS subsystems. The user can choose to print a report or have it sent to the workstation for viewing, or to a text file. If necessary, the user can cancel a report generation process. The PDR application supports both PostScript and character-based printing.

1.2.1 History

The PDR application is a subset of the PDRs from the legacy systems. Not all PDRs are included in this delivery. Many of the reports were implemented as part of other GCCS applications, e.g.,

Scheduling and Movement (S&M) and Ad Hoc Query (AHQ). The remaining PDRs are being developed separately under other efforts. All report requirements are fulfilled by the various efforts.

Since the PDR application was the result of a migration effort to a client/server environment, there is no direct history of operations and maintenance. However, it is expected that the new environment will result in reductions in operations and maintenance costs.

1.2.2 PDR Application Sponsor

The PDR application sponsor and acquirer is the Defense Information Systems Agency (DISA). The specific sponsor is the DISA/Joint Interoperability and Engineering Organization (JIEO). The projected users are the JOPES planners at the JS and at CINC headquarters, components, Services, and associated subordinate commands. The application is part of the ongoing GCCS Version 2.1 fielding currently in progress. It will be available at all sites where JOPES is installed. Pertinent references are listed in Section 2.0.

1.3 Document Overview

This document details the information required by MIL-STD 498, Data Item Description (DID), DI-IPSC-81441. The document contains the scope, references, notes, and forward references to the remaining information in the appendices. The appendices contain the detailed technical information to support the PDR application maintenance. Appendix A contains requirements, software support information, and qualifying provisions. Appendix B contains the PDR GCCS Hardware Requirements Questionnaire, which was previously delivered to the GCCS Configuration Management (CM) Office with each PDR software delivery. Appendix C provides requirements traceability information.

2.0 REFERENCED DOCUMENTS

The following documents are referenced in or are applicable to this manual:

a. Computer Sciences Corporation, Systems Engineering Division, JOPES Development Standards, Falls Church, VA, July 25, 1995.

b. Defense Communications Agency (DCA), Joint Data Systems Support Center, Joint Operation Planning System (JOPS) Force Module Subsystem (FMS) Users Manual , Computer System Manual, CSM UM 290-86, August 1, 1986.

c. DCA, Joint Data Systems Support Center, Joint Operation Planning System (JOPS) Force Requirements Generator (FRG) Users Manual , Computer System Manual, CSM UM 200-85, June 1, 1985.

d. Defense Enterprise Integration Services (DEIS), GCCS System Engineering Support, Installation Instruction Input for Predefined Reports , Sterling, VA, April 14, 1995.

e. DEIS, GCCS System Engineering Support, Software Test Description and Procedures: Pre-Defined Reports (Final), June 15, 1995.

f. DISA, Defense Systems Support Organization (DSSO), Joint Operation Planning and Execution System (JOPES) JDS Applications Users Manual - Volume 2 , September 15, 1994.

g. DISA, DSSO, Joint Operation Planning and Execution System (JOPES) Reference File Paging (RFP) Users Manual , Computer System Manual, CSM UM 297-92, September 28, 1992.

h. DISA, Global Command and Control System (GCCS) Integration Standard , Version 1.0, Washington, D.C., October 26, 1994.

i. DISA, Scheduling and Movement (S&M), GCCS Core Database, Maintenance Manual , Washington, D.C., August 25, 1994.

j. United States Transportation Command (USTC), Development Division, Joint Deployment System (JDS) Requirements (REQ) Subsystem Specification , TD-18-52, September 30, 1988.

k. USTC, Development Division, Joint Deployment System (JDS) Force Module (FM) Subsystem Specification , TD-18-54, September 30, 1988.

l. DISA, GCCS Integration Standard , DISA-JIEO-IS-1.0, October 26, 1994.

m. DISA, GCCS System Integration Support; PDR Users Manual , December 8, 1995.

3.0 REQUIREMENTS

The PDR application requirements are documented within this section. This application operates within the context of the GCCS Desktop as a standard executable that is accessed through the JOPES High Level System Navigation (JNAV). Alternatively, the OPLAN-based reports are available from RDA.

3.1 Executable Software

Refer to Appendix A.1.2 for this section.

3.2 Source Files

Refer to Appendix A.1.1 for this section. The source files are delivered on a tape for installation onto the UNIX platform.

3.3 Segmentation Scripts

Refer to Appendix A.1.3 for this section.

4.0 QUALIFICATION PROVISIONS

Refer to Appendix A.5 for this section.

5.0 SOFTWARE SUPPORT INFORMATION

5.1 "As Built" Software Design

Refer to Appendix A.2 for this section.

5.2 Compilation/Build Procedures

Refer to Appendix A.3 for this section.

5.3 Modification Procedures

Refer to Appendix A.4 for this section.

5.4 Computer Hardware Resource Utilization

Refer to Appendix B for this section.

6.0 REQUIREMENTS TRACEABILITY

Refer to Appendix C for this section.

7.0 NOTES

The following acronyms are used in this document:

AHQ	Ad Hoc Query
AMC	Air Mobility Command
ASCII	American Standard Code for Information Interchange
CCC	Cargo Category Code
CIN	Cargo Increment Number
CINC	Commander-in-Chief
CM	Configuration Management
COTS	Commercial-off-the-Shelf
CSM	Computer System Manual
DBA	Database Administrator
DCA	Defense Communications Agency
DEIS	Defense Enterprise Integration Services
DID	Data Item Description
DISA	Defense Information Systems Agency
DOD	Department of Defense
DPS	Data Processing System
DSSO	Defense Systems Support Organization
FM	Force Module
FMID	Force Module Identification
FRG	Force Requirements Generator
GCCS	Global Command and Control System
GEL	Gain Extension Language
GEO	Geographic
GEOFILE	Standard Specified Geographic Location File
GEOLOC	Geographic Location Code
GUI	Graphical User Interface
GSPR	Global System Problem Report
ID	Identification
JDS	Joint Deployment System
JIEO	Joint Interoperability and Engineering Organization
JNAV	JOPES High Level System Navigation
JOPES	Joint Operation Planning and Execution System
JOPS	Joint Operation Planning System
JS	Joint Staff
MIL-STD	Military Standard
MSC	Military Sealift Command
OPLAN	Operation Plan
PDR	Pre-Defined Report(s)
PID	Plan Increment Number
PIN	Personnel Increment Number
RDA	Requirements Development and Analysis
RDBMS	Relational Database Management System
REQ	Requirement

RFP	Reference File Paging
S&M	Scheduling and Movement
SPM	Software Programmer's Manual
SQL	Structured Query Language
TPFDD	Time-Phased Force and Deployment Data
TUCHA	Type Unit Characteristics File
ULN	Unit Line Number
UM	User Manual
URP	User Review Panel
USTC	United States Transportation Command
UTC	Unit Type Code
WWMCCS	Worldwide Military Command and Control System